10/606,310

EAST SEARCH NOTES (cont.)

Part (I) SEARCH STRATEGY

Part (II) SEARCH RESULTS

Part (II) Results Identified As Follows

(1) PARTIALLY RELEVANT [potential Y or A] DOCUMENTS

(2) HIGHLY RELEVANT [potential X, Y or A] DOCUMENTS

(C) DOCUMENTS CITED BY EXAMINER ON FORM PTO-892

(3) DOCUMENTS CITED BY APPLICANT ON FORM PTO-1449

July 13, 2004   Part of Paper No. 0704

	Hits	Search Text	DBs
1	348	((variable ADJ foc$2 zoom vari$1foc$2) ADJ lens) SAME ((first NEAR2 (group unit component)) NEAR2 (negative diverg$3 concave bi$1concave)) SAME ((second NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) SAME ((third NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex))	USPAT; US-PGPUB
2	261	((variable ADJ foc$2 zoom vari$1foc$2) ADJ lens) SAME ((first NEAR2 (group unit component)) NEAR2 (negative diverg$3 concave bi$1concave)) SAME ((second NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) SAME ((third NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) AND (aperture ADJ stop diaphragm)	USPAT; US-PGPUB
3	177	((second NEAR2 (group unit component)) SAME ((positive near2 lens) AND (negative near2 lens)) SAME distance) AND (((variable ADJ foc$2 zoom vari$1foc$2) ADJ lens) SAME ((first NEAR2 (group unit component)) NEAR2 (negative diverg$3 concave bi$1concave)) SAME ((second NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) SAME ((third NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)))	USPAT; US-PGPUB
4	140	(((first NEAR2 (group unit component)) AND (second NEAR2 (group unit component))) SAME distance SAME zooming) AND ((second NEAR2 (group unit component)) SAME ((positive near2 lens) AND (negative near2 lens)) SAME distance) AND (((variable ADJ foc$2 zoom vari$1foc$2) ADJ lens) SAME ((first NEAR2 (group unit component)) NEAR2 (negative diverg$3 concave bi$1concave)) SAME ((second NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) SAME ((third NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)))	USPAT; US-PGPUB
5	144	((variable ADJ foc$2 zoom vari$1foc$2) ADJ lens) SAME ((first NEAR2 (group unit component)) NEAR2 (negative diverg$3 concave bi$1concave)) SAME ((second NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) SAME ((third NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) AND (aperture ADJ stop)	USPAT; US-PGPUB
6	108	((variable ADJ foc$2 zoom vari$1foc$2) ADJ lens) SAME ((first NEAR2 (group unit component)) NEAR2 (negative diverg$3 concave bi$1concave)) SAME ((second NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) SAME ((third NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) SAME (stop aperture diaphragm)	USPAT; US-PGPUB
7	81	((variable ADJ foc$2 zoom vari$1foc$2) ADJ lens) SAME ((first NEAR2 (group unit component)) NEAR2 (negative diverg$3 concave bi$1concave)) SAME ((second NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) SAME ((third NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) SAME (aperture stop)	USPAT; US-PGPUB
8	41	((variable ADJ foc$2 zoom vari$1foc$2) ADJ lens) SAME ((first NEAR2 (group unit component)) NEAR2 (negative diverg$3 concave bi$1concave)) SAME ((second NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) SAME ((third NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) SAME (aperture ADJ stop)	USPAT; US-PGPUB
9	25	((second NEAR2 (group unit component)) SAME ((positive near2 lens) AND (negative near2 lens)) SAME distance) AND (((variable ADJ foc$2 zoom vari$1foc$2) ADJ lens) SAME ((first NEAR2 (group unit component)) NEAR2 (negative diverg$3 concave bi$1concave)) SAME ((second NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) SAME ((third NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) SAME (aperture ADJ stop))	USPAT; US-PGPUB
10	21	(((first NEAR2 (group unit component)) AND (second NEAR2 (group unit component))) SAME distance SAME zooming) AND ((second NEAR2 (group unit component)) SAME ((positive near2 lens) AND (negative near2 lens)) SAME distance) AND (((variable ADJ foc$2 zoom vari$1foc$2) ADJ lens) SAME ((first NEAR2 (group unit component)) NEAR2 (negative diverg$3 concave bi$1concave)) SAME ((second NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) SAME ((third NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) SAME (aperture ADJ stop))	USPAT; US-PGPUB
11	117	((variable ADJ foc$2 zoom vari$1foc$2) ADJ lens) SAME ((first NEAR2 (group unit component)) NEAR2 (negative diverg$3 concave bi$1concave)) SAME ((second NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) SAME ((third NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex))	EPO; JPO; DERWENT
12	22	((variable ADJ foc$2 zoom vari$1foc$2) ADJ lens) SAME ((first NEAR2 (group unit component)) NEAR2 (negative diverg$3 concave bi$1concave)) SAME ((second NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) SAME ((third NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) AND (aperture ADJ stop diaphragm)	EPO; JPO; DERWENT
13	19	((second NEAR2 (group unit component)) SAME ((positive near2 lens) AND (negative near2 lens)) SAME distance) AND (((variable ADJ foc$2 zoom vari$1foc$2) ADJ lens) SAME ((first NEAR2 (group unit component)) NEAR2 (negative diverg$3 concave bi$1concave)) SAME ((second NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) SAME ((third NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)))	EPO; JPO; DERWENT

	Hits	Search Text	DBs
14	8	(((first NEAR2 (group unit component)) AND (second NEAR2 (group unit component))) SAME distance SAME zooming) AND ((second NEAR2 (group unit component)) SAME ((positive near2 lens) AND (negative near2 lens)) SAME distance) AND (((variable ADJ foc$2 zoom vari$1foc$2) ADJ lens) SAME ((first NEAR2 (group unit component)) NEAR2 (negative diverg$3 concave bi$1concave)) SAME ((second NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) SAME ((third NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)))	EPO; JPO; DERWENT
15	4	((variable ADJ foc$2 zoom vari$1foc$2) ADJ lens) SAME ((first NEAR2 (group unit component)) NEAR2 (negative diverg$3 concave bi$1concave)) SAME ((second NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) SAME ((third NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) AND (aperture ADJ stop)	EPO; JPO; DERWENT
16	28	((variable ADJ foc$2 zoom vari$1foc$2) ADJ lens) SAME ((first NEAR2 (group unit component)) NEAR2 (negative diverg$3 concave bi$1concave)) SAME ((second NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) SAME ((third NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) SAME (stop aperture diaphragm)	EPO; JPO; DERWENT
17	18	((variable ADJ foc$2 zoom vari$1foc$2) ADJ lens) SAME ((first NEAR2 (group unit component)) NEAR2 (negative diverg$3 concave bi$1concave)) SAME ((second NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) SAME ((third NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) SAME (aperture stop)	EPO; JPO; DERWENT
18	4	((variable ADJ foc$2 zoom vari$1foc$2) ADJ lens) SAME ((first NEAR2 (group unit component)) NEAR2 (negative diverg$3 concave bi$1concave)) SAME ((second NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) SAME ((third NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) SAME (aperture ADJ stop)	EPO; JPO; DERWENT
19	12	("4733952"|"4465343"|"6191896"|"6351337"|"6243213"|"6124987"|"6172818"|"5872660"|"6081389"|"5434710"|"6493142"|"6476977").PN.	USPAT; US-PGPUB
20	16	("5055868"|"5274504"|"5305148"|"5218478"|"5365376"|"5574599"|"5585971"|"5587840"|"5687027"|"5815320"|"5831772"|"5844725"|"6008953"|"6219190"|"6233099"|"6327099").PN.	USPAT; US-PGPUB
21	35	ITOH-yoshinori.IN.	USPAT; US-PGPUB
22	13	23 AND 1	USPAT; US-PGPUB
23	169	(359/680).CCLS.	USPAT; US-PGPUB
24	117	(359/682).CCLS.	USPAT; US-PGPUB
25	367	(359/684).CCLS.	USPAT; US-PGPUB
26	111	(359/685).CCLS.	USPAT; US-PGPUB
27	455	(359/689).CCLS.	USPAT; US-PGPUB
28	35	((359/676).CCLS.) AND (((variable ADJ foc$2 zoom vari$1foc$2) ADJ lens) SAME ((first NEAR2 (group unit component)) NEAR2 (negative diverg$3 concave bi$1concave)) SAME ((second NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) SAME ((third NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)))	USPAT; US-PGPUB
29	21	((359/691).CCLS.) AND (((variable ADJ foc$2 zoom vari$1foc$2) ADJ lens) SAME ((first NEAR2 (group unit component)) NEAR2 (negative diverg$3 concave bi$1concave)) SAME ((second NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)) SAME ((third NEAR2 (group unit component)) NEAR2 (positive converg$3 convex bi$1convex)))	USPAT; US-PGPUB

	1	2	C	3	Document ID ▽	Title
1	☒	☐	☐	☐	US 6704149 B2	Lens optical system
2	☒	☐	☐	☐	US 6621642 B2	Taking lens device
3	☒	☐	☐	☐	US 6614599 B1	Zoom lens system, and image pickup system using the same
4	☒	☐	☐	☐	US 6532114 B1	Zoom lens system
5	☐	☐	☐	☒	US 6493142 B1	Zoom lens and photographing apparatus having it
6	☐	☐	☐	☒	US 6476977 B1	Zoom lens and optical apparatus
7	☐	☐	☐	☒	US 6351337 B1	Three-group zoom lens
8	☒	☐	☐	☐	US 6308011 B1	Zoom lens and photographic apparatus having the same
9	☐	☐	☐	☒	US 6243213 B1	Zoom lens and camera having the zoom lens
10	☐	☐	☐	☒	US 6219190 B1	Zoom lens
11	☐	☐	☐	☒	US 6191896 B1	Zoom lens and optical apparatus having the same
12	☐	☐	☐	☒	US 6172818 B1	Zoom lens system
13	☐	☐	☐	☒	US 6124987 A	Zoom Lens
14	☐	☐	☐	☒	US 6081389 A	Zoom lens of retrofocus type
15	☐	☐	☐	☒	US 6008953 A	Zoom lens
16	☐	☐	☐	☒	US 5872660 A	Taking lens system
17	☐	☐	☐	☒	US 5844725 A	Zoom lens
18	☐	☐	☐	☒	US 5831772 A	Compact zoom lens
19	☐	☐	☐	☒	US 5815320 A	Zoom lens
20	☐	☐	☐	☒	US 5687027 A	Zoom lens for optical apparatus such as camera
21	☐	☐	☐	☒	US 5587840 A	Zoom lens
22	☐	☐	☐	☒	US 5585971 A	Small-sized variable magnification lens
23	☐	☐	☐	☒	US 5574599 A	Zoom lens and zooming method
24	☐	☐	☐	☒	US 5434710 A	Zoom lens system comprising three lens units
25	☐	☐	☐	☒	US 5365376 A	Zoom lens
26	☐	☐	☐	☒	US 5305148 A	Compact varifocal lens
27	☐	☐	☐	☒	US 5274504 A	Zoom lens
28	☐	☐	☐	☒	US 5218478 A	Small-sized zoom lens
29	☐	☐	☐	☒	US 5055868 A	Variable magnification finder of real image type
30	☐	☐	☐	☒	US 4733952 A	Small zoom lens
31	☐	☐	☐	☒	US 4465343 A	Zoom lens system
32	☒	☐	☐	☐	US 20040051961 A1	Zoom lens system, and image pick-up apparatus incorporating such zoom lens system
33	☒	☐	☐	☐	US 20030058548 A1	Zoom lens and camera
34	☒	☐	☐	☐	JP 2003131132 A	ELECTRONIC IMAGING UNIT